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IBM Technical Disclosure Bulletins

Term: 19 not 17

Display: 10 Documents in Display Format: Starting with Number 20

Generate: Hit List Hit Count Side by Side Image

Search History

DATE: Monday, January 30, 2006 [Printable Copy](#) [Create Case](#)

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result set			
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
<u>L10</u>	19 not 17	16	<u>L10</u>
<u>L9</u>	18 and 16 and 12 and 13	33	<u>L9</u>
<u>L8</u>	sperm	33164	<u>L8</u>
<u>L7</u>	15 and 16	17	<u>L7</u>
<u>L6</u>	extender	66464	<u>L6</u>
<u>L5</u>	11 and 12 and 13	71	<u>L5</u>
<u>L4</u>	11 same 12 same 13	2	<u>L4</u>
<u>L3</u>	sex	59990	<u>L3</u>
<u>L2</u>	cryopreserv\$5	4987	<u>L2</u>
<u>L1</u>	sperm cell	1607	<u>L1</u>

END OF SEARCH HISTORY

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=> file ca, biosis, medline

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=> s sperm cell?

L1 7089 SPERM CELL?

=> s cryopreserv?

L2 32071 CRYOPRESERV?

=> s sex

L3 703536 SEX

=> s extender

L4 9579 EXTENDER

=> s 11 and 12 and 13 and 14

L5 0 L1 AND L2 AND L3 AND L4

=> s sperm

L6 147014 SPERM

=> s 12 and 13 and 14 and 16

L7 2 L2 AND L3 AND L4 AND L6

=> d 1-2 ab,bib

L7 ANSWER 1 OF 2 CA COPYRIGHT 2006 ACS on STN

AB Expts. were performed to validate an extraction technique for canine acrosin (EC 3.4.21.10) and to quantitate the acrosin activity of fresh and frozen-thawed spermatozoa. Acrosin activity from fresh spermatozoa differed amongst dogs and was influenced by the interval since previous ejaculation. Freezing and thawing spermatozoa induced a loss of acrosin activity that differed with the **extender** in which the spermatozoa were frozen. The assay of acrosin activity, in conjunction with motility ests., provides a more complete evaluation of the efficacy of seminal extenders in attenuating freezing injury than do motility ests. alone.

AN 100:83444 CA

TI Acrosin activity of canine spermatozoa as an index of cellular damage

AU Froman, D. P.; Amann, R. P.; Riek, P. M.; Olar, T. T.

CS Anim. Reprod. Lab., Colorado State Univ., Fort Collins, CO, 80523, USA

SO Journal of Reproduction and Fertility (1984), 70(1), 301-8

CODEN: JRPFA4; ISSN: 0022-4251

DT Journal

LA English

L7 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AB Black sea bass *Centropristes striata* L. are protogynous hermaphrodites that develop and spawn as females before changing **sex** to male. Since all fish eventually become males, determining the relationship between **sperm** production, **sperm** quality and seasonal changes in plasma levels of testosterone (T) and 11-ketotestosterone (11-KT) could be useful for identifying appropriate males to maintain as broodstock. Milt and blood samples were collected three times during an 8-week spawning season. Milt volume ($3.5+/-0.76$ mL kg $^{-1}$), **sperm** density ($3.2 \times 10^8+/-0.31$ cells mL $^{-1}$), **sperm** production ($11 \times 10^8+/-3.4$ cells kg $^{-1}$ body weight (BW)) and **sperm** motility ($80+/-0.6\%$) were at their highest during the first sampling interval and coincided with the highest 11-KT levels ($1.0+/-0.11$ ng mL $^{-1}$). All of the **sperm** indices decreased to their lowest levels during the final 3 weeks of the study. **Sperm** viability was highly correlated (adjusted R $^2=0.84$) with **sperm** motility. **Sperm** **cryopreserved** in modified Mounib's **extender** (MME) had the highest post-thaw motility compared with two other extenders. Post-thaw motility of **sperm** **cryopreserved** in MME was not different from fresh after 90 days of storage. There was no

difference in fertilization rates between fresh (69+/-2.4%) and post-thaw (67+/-4.1%) **sperm** samples taken from the same male or among males. These results demonstrate that the quality of black sea bass spermatozoa is higher earlier in the spawning season and that acceptable post-thaw fertilization rates can be obtained from **cryopreserved sperm**.

AN 2005:102134 BIOSIS

DN PREV200500099168

TI Production and storage of **sperm** from the black sea bass
Centropristes striata L.

AU DeGraaf, James Dana; King, William; Benton, Christopher; Berlinsky, David L. [Reprint Author]

CS Dept Zool, Univ New Hampshire, Durham, NH, 03824, USA
david.berlinsky@unh.edu

SO Aquaculture Research, (December 22 2004) Vol. 35, No. 15, pp. 1457-1465.
print.

ISSN: 1355-557X (ISSN print).

DT Article

LA English

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